

L Number	Hits	Search Text	DB	Time stamp
-	369	429/217.ccls.	USPAT	2002/06/03 15:16
-	4	429/217.ccls. and wt%	USPAT	2002/06/03 15:17
-	0	429/217.ccls. and 2-15	USPAT	2002/06/03 15:18
-	194	429/217.ccls. and (binder same (percent or amount or weight))	USPAT	2002/06/03 15:19
-	127	battery and (aromatic same diene)	USPAT;	2003/07/13 12:50
-	10	battery and (aromatic same diene same binder)	EPO; JPO	
-	3	"932212"	USPAT;	2003/07/13 12:55
-	0	Ysujimoto.in.	EPO; JPO	
-	414	tsujimoto.in.	DERWENT	2003/07/13 12:57
-	0	tsujimoto.in. and (aromatic adj vinyl adj conjugate adj diene adj polymer)	DERWENT	2003/07/13 12:57
-	0	tsujimoto.in. and (aromatic adj vinyl adj conjugate)	DERWENT	2003/07/13 13:18
-	1	tsujimoto.in. and (aromatic adj vinyl)	DERWENT	2003/07/13 12:58
-	3	"9908335"	DERWENT	2003/07/13 12:58
-	1	"06215761"	DERWENT	2003/07/13 13:02
-	0	429/\$7.ccls.	DERWENT	2003/07/13 13:09
-	25179	429/\$7.ccls.	DERWENT	2003/07/13 13:09
-	9	429/\$7.ccls. and ozaki.in.	USPAT	2003/07/13 13:09
-	4	429/\$7.ccls. and ozaki.in.	USPAT	2003/07/13 13:11
-	1	6355372.pn.	US-PGPUB	2003/07/13 13:16
-	1	tsujimoto.in. and diene	USPAT	2003/07/13 13:16
-	57	tsujimoto.in.	US-PGPUB	2003/07/13 13:19
			US-PGPUB	2003/07/13 13:19

PAT-NO: JP410241693A  
DOCUMENT-IDENTIFIER: JP 10241693 A  
TITLE: HYDROGEN-STORAGE ELECTRODE BINDER  
PUBN-DATE: September 11, 1998

INVENTOR-INFORMATION:  
NAME  
ITO, NOBUYUKI  
YASUDA, TADASHI  
NORITAKE, YOSHIKA  
TAKEUCHI, YASUMASA

ASSIGNEE-INFORMATION:  
NAME  
JSR CORP

COUNTRY  
N/A

APPL-NO: JP09058503  
APPL-DATE: February 26, 1997

INT-CL (IPC): H01M004/62, H01M004/24

ABSTRACT:

PROBLEM TO BE SOLVED: To lessen effects on electrode active material, maintain high conductivity, and enhance binding property with collecting material by forming a hydrogen-storage electrode binder of aromatic vinyl units, conjugate diene units, acrylic ester units, and compound units containing functional groups, and specifying the amount of the acrylic ester units.

SOLUTION: In order to constitute a copolymer, styrene as

an aromatic vinyl compound, 1,3-butadiene as conjugate diene, and methyl acrylate as acrylic ester are cited. As a weight, the aromatic vinyl units are set to 20 to 55% of the copolymer, the conjugate diene compound is set to 30 to 60%, the acrylic ester is 10 to 40%, and the compound containing function groups is set to 0.1 to 10%. By such a binder, a hydrogen-storage alloy electrode having a high binding property with collecting material can be obtained mainly in a nickel hydrogen secondary battery.

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PAT-NO: JP411025989A  
DOCUMENT-IDENTIFIER: JP 11025989 A  
TITLE: BATTERY ELECTRODE BINDER  
PUBN-DATE: January 29, 1999

INVENTOR-INFORMATION:  
NAME  
NORITAKE, YOSHIKA  
ITO, NOBUYUKI

ASSIGNEE-INFORMATION:  
NAME JSR CORP COUNTRY  
N/A

APPL-NO: JP09194899  
APPL-DATE: July 4, 1997

INT-CL (IPC): H01M004/62, C08F002/00 , C08F212/08 ,  
C08F279/02 , C08F220/10

ABSTRACT:

PROBLEM TO BE SOLVED: To provide a secondary battery electrode binder excellent in a large capacity, discharge performance, charging and discharging cycle characteristics and safety.

SOLUTION: A binder is composed of (a) aromatic vinyl units, (b) conjugate diene units, (c) (metha)acrylic ester units and (d) ethylenically unsaturated carboxylic acid units. The binder contains a copolymer (b) the conjugate diene units &le;30 wt.% of the whole copolymer, and (c) 10 to 40 wt.% of the (metha)

acrylic ester units of the whole copolymer. Preferably, the binder contains core shell structure particles in which cores are made of a (co)polymer with a glass transition point of  $-50$  to  $50^{\circ}\text{C}$  and shells are made of a (co)polymer with glass transition point of  $0$  to  $100^{\circ}\text{C}$ .

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## Inventor Name Search Result

Your Search was:

Last Name = TSUJIMOTO  
First Name = HISASHI

Application#	Patent#	Status	Date Filed	Title	Inventor Name
09842926	Not Issued	061	03/30/2001	MATERIAL FOR POSITIVE ELECTRODE AND SECONDARY BATTERY	TSUJIMOTO, HISASHI
09284222	Not Issued	071	07/22/1999	NONAQUEOUS ELECTROLYTE SECONDARY BATTERY	TSUJIMOTO, HISASHI

Inventor Search Completed: No Records to Display.

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tsujimoto

hisashi

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## Inventor Name Search Result

Your Search was:

Last Name = YAMAHIRA  
First Name = TAKAYUKI

Application#	Patent#	Status	Date Filed	Title	Inventor Name
10103582	Not Issued	030	03/20/2002	CARBONACEOUS PRECURSOR, CARBONACEOUS MATERIAL FOR NEGATIVE ELECTRODE AND NON- AQUEOUS SECONDARY BATTERY	YAMAHIRA, TAKAYUKI
09842485	Not Issued	041	04/25/2001	POSITIVE ELECTRODE AND NON- AQUEOUS ELECTROLYTE CELL	YAMAHIRA, TAKAYUKI
09341209	Not Issued	041	08/23/1999	SQUARE-SHAPE CLOSED BATTERY	YAMAHIRA, TAKAYUKI
09284222	Not Issued	071	07/22/1999	NONAQUEOUS ELECTROLYTE SECONDARY BATTERY	YAMAHIRA, TAKAYUKI
09269842	Not Issued	161	09/22/1999	CARBONACEOUS PRECURSOR, CARBONACEOUS ANODE MATERIAL, AND NONAQUEOUS RECHARGEABLE BATTERY	YAMAHIRA, TAKAYUKI
09196319	6355372	150	11/20/1998	NON-AQUEOUS ELECTROLYTE SECONDARY CELL	YAMAHIRA, TAKAYUKI
08978128	Not Issued	125	11/25/1997	NEGATIVE ELECTRODE CARBONACEOUS MATERIAL, METHOD OF PREPARING SAME AND NON- AQUEOUS ELECTROLYTE-TYPE SECONDARY CELL USING SAME	YAMAHIRA, TAKAYUKI
08911851	5709969	150	08/15/1997	NON-AQUEOUS ELECTROLYTE	YAMAHIRA, TAKAYUKI

<u>08854847</u>	<u>6174625</u>	150	05/12/1997	SECONDARY CELL ANODE MATERIAL, METHOD FOR PRODUCING IT AND NONAQUEOUS ELECTROLYTE CELL EMPLOYING SUCH ANODE MATERIALS	YAMAHIRA, TAKAYUKI
<u>08627408</u>	Not Issued	161	04/04/1996	NEGATIVE ELECTRODE CARBONACEOUS MATERIAL, METHOD OF PREPARING SAME AND NON-AQUEOUS ELECTROLYTE-TYPE SECONDARY CELL USING SAME	YAMAHIRA, TAKAYUKI
<u>08548520</u>	Not Issued	166	10/26/1995	NON-AQUEOUS ELECTROLYTE SECONDARY CELL	YAMAHIRA, TAKAYUKI
<u>08493464</u>	<u>5601950</u>	150	06/22/1995	NON-AQUEOUS ELECTROLYTE SECONDARY CELL	YAMAHIRA, TAKAYUKI
<u>07920925</u>	<u>5273842</u>	150	07/28/1992	NON-AQUEOUS ELECTROLYTE SECONDARY BATTERY	YAMAHIRA, TAKAYUKI
<u>07502679</u>	<u>5053297</u>	150	04/02/1990	NONAQUEOUS ELECTROLYTE SECONDARY BATTERY	YAMAHIRA, TAKAYUKI

Inventor Search Completed: No Records to Display.

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yamahira

First Name

takayuki

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## Inventor Name Search Result

Your Search was:

Last Name = YAMAMOTO  
First Name = YOSHIKATSU

Application#	Patent#	Status	Date Filed	Title	Inventor Name
<u>10296754</u>	Not Issued	019	05/09/2003	NONAQUEOUS ELECTROLYTE CELL AND ITS MANUFACTURING METHOD, AND POSITIVE ELECTRODE ACTIVE MATERIAL AND ITS MANUFACTURING METHOD	YAMAMOTO, YOSHIKATSU
<u>10204952</u>	Not Issued	030	10/25/2002	POSITIVE ELECTRODE ACTIVE MATERIAL AND NONAQUEOUS ELECTROLYTE SECONDARY CELL	YAMAMOTO, YOSHIKATSU
<u>09822926</u>	Not Issued	061	03/30/2001	MATERIAL FOR POSITIVE ELECTRODE AND SECONDARY BATTERY	YAMAMOTO, YOSHIKATSU
<u>09284222</u>	Not Issued	071	07/22/1999	NONAQUEOUS ELECTROLYTE SECONDARY BATTERY	YAMAMOTO, YOSHIKATSU
<u>09064619</u>	<u>6127065</u>	150	04/23/1998	METHOD OF MANUFACTURING CATHODE ACTIVE MATERIAL AND NONAQUEOUS ELECTROLYTE SECONDARY BATTERY	YAMAMOTO, YOSHIKATSU
<u>08992459</u>	<u>6001507</u>	150	12/17/1997	NON-AQUEOUS ELECTROLYTE SECONDARY BATTERY	YAMAMOTO, YOSHIKATSU
<u>08988950</u>	<u>6584687</u>	150	12/11/1997	A METHOD OF MANUFACTURING AN INK-JET RECORDING HEAD USING A THERMALLY FUSIBLE FILM THAT DOES NOT CLOSE COMMUNICATION	YAMAMOTO, YOSHIKATSU

				HOLES	
<u>08575869</u>	<u>5872583</u>	150	12/20/1995	LAMINATED INK-JET RECORDING HEAD USING FUSIBLE FILMS HAVING WINDOWS SUPPLIED WITH ADHESIVE AND GAP MATERIAL	YAMAMOTO, YOSHIKATSU
<u>08552520</u>	<u>5748210</u>	150	11/02/1995	INK JET TYPE RECORDING UNIT WITH AN IMPROVED CARRIAGE STRUCTURE	YAMAMOTO, YOSHIKATSU
<u>08510996</u>	<u>5748214</u>	150	08/03/1995	INK JET RECORDING HEAD	YAMAMOTO, YOSHIKATSU
<u>08327719</u>	<u>5474752</u>	150	10/24/1994	METHOD OF PRODUCING ACTIVE CATHODE MATERIAL FOR LITHIUM SECONDARY BATTERY	YAMAMOTO, YOSHIKATSU
<u>07962583</u>	<u>5427875</u>	150	12/28/1992	NON-AQUEOUS ELECTROLYTE SECONDARY CELL	YAMAMOTO, YOSHIKATSU
<u>07831346</u>	Not Issued	161	02/05/1992	NONAQUEOUS ELECTROLYTE SECONDARY BATTERY	YAMAMOTO, YOSHIKATSU
<u>07514223</u>	<u>5231420</u>	150	04/25/1990	THERMAL PRINT HEAD	YAMAMOTO, YOSHIKATSU

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